WHAT IS CLAIMED IS:

- 1. A method for inhibiting aggregation of β -amyloid in a subject or disaggregating aggregated β -amyloid in a subject, comprising administering to a subject in need thereof an effective amount of a filamentous bacteriophage which displays an epitope of β -amyloid so as to elicit antibodies against said epitope in said subject, wherein said antibodies inhibit aggregation of said β -amyloid in said subject and/or cause disaggregation of said β -amyloid aggregate in said subject.
- 2. The method of claim 1, wherein said bacteriophage propagates in bacterial flora in said recipient.
- 3. The method of claim 1, wherein said bacteriophage propagates in Escherichia coli.
- 4. The method of claim 1, wherein said bacteriophage is fd.
- 5. The method of claim 1, wherein said filamentous bacteriophage which displays an epitope of β -amyloid is selected such that less than 30 days following an introduction of a triple dose of 10^{10} units thereof to the recipient, a titer of said antibodies is above 1:50,000, as is determined by ELISA.

A method in accordance with claim 1, wherein said epitope of β -amyloid is displayed via coat glycoprotein VIII on said bacteriophage. A method in accordance with claim 1, wherein said bacteriophage is M13. A method in accordance with claim 1, wherein said bacteriophage displays SEQ ID NO:1. A method in accordance with claim 1, wherein said bacteriophage displays a peptide selected from the group consisting of SEQ ID NO:3, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:21, and SEQ ID NO:22. A method in accordance with claim 8, wherein said epitope of β -amyloid is displayed via coat glycoprotein VIII on said bacteriophage. A method in accordance with claim 9, wherein said epitope of β -amyloid is displayed via coat glycoprotein VIII on said bacteriophage. A method in accordance with claim 1, wherein said administering is to the olfactory system of the subject. 13. A method for inhibiting aggregation of a prion protein in a subject or disaggregating aggregated prion protein in a subject, comprising administering to a subject in need thereof an effective amount of a filamentous bacteriophage which displays an epitope of a prion protein so - 102 -

as to elicit antibodies against said epitope in said subject, wherein said antibodies inhibit aggregation of said prion protein in said subject and/or cause disaggregation of said prion protein aggregate in said subject.

- 14. The method of claim 13, wherein said prion protein is scrapie isoform (PrP^{SC}) .
- 15. A method in accordance with claim 13, wherein said epitope of a prion protein is displayed via coat glycoprotein VIII on said bacteriophage.
- 16. A method in accordance with claim 14, wherein said epitope of a prion protein is displayed via coat glycoprotein VIII on said bacteriophage.
- 17. A method in accordance with claim 13, wherein said administering is to the olfactory system of the subject.